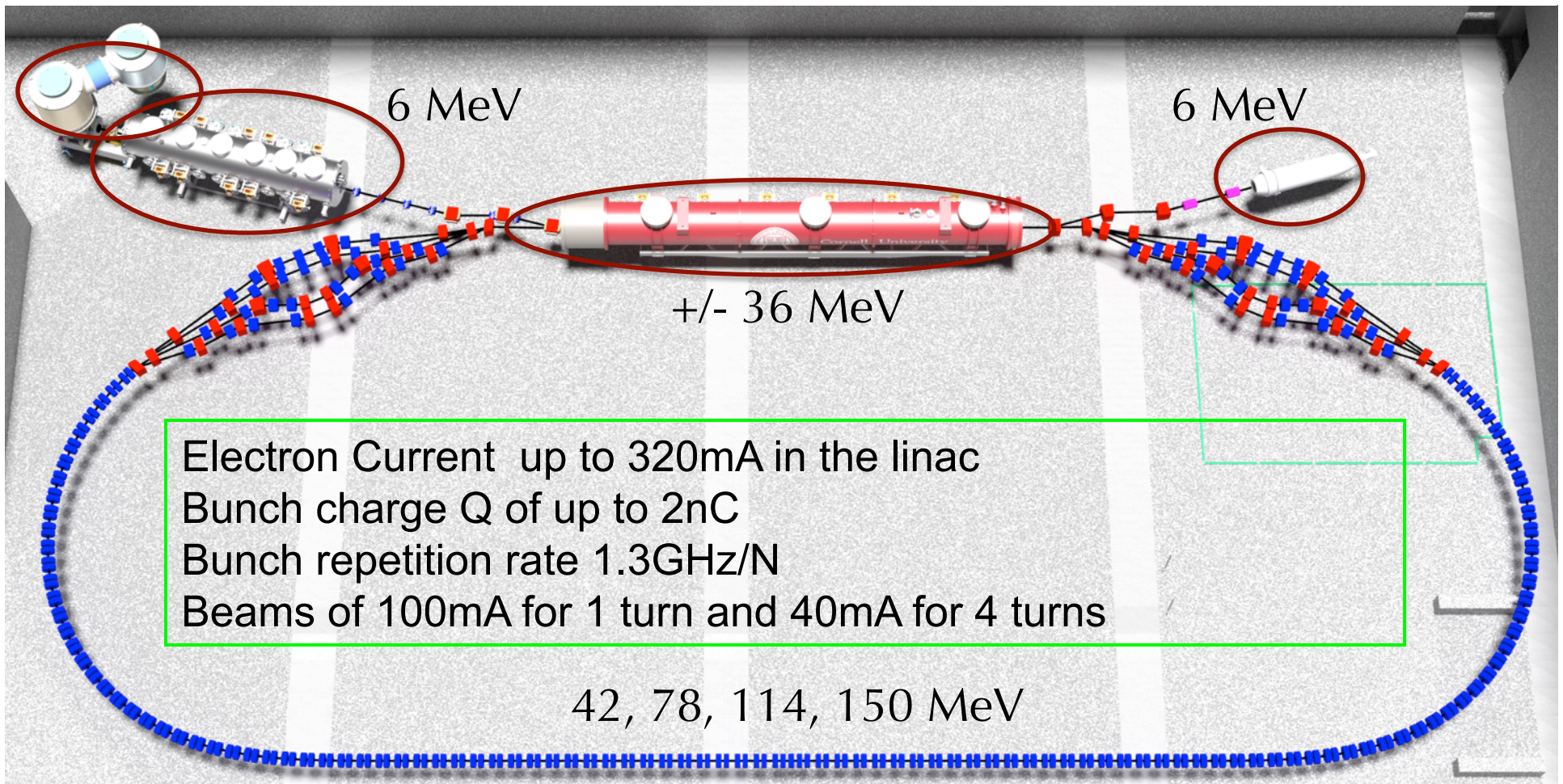


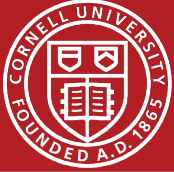


## The Cornell/BNL 4-Turn ERL with FFAG Return Arcs for eRHIC Prototyping

- **Existing components:** Cornell DC gun, 100mA, 6MeV SRF injector (ICM), 600kW beam dump, 100mA, 6-cavity SRF CW Linac (MLC)
- Hall has been prepared, optics completed, permanent magnets are being prototyped.

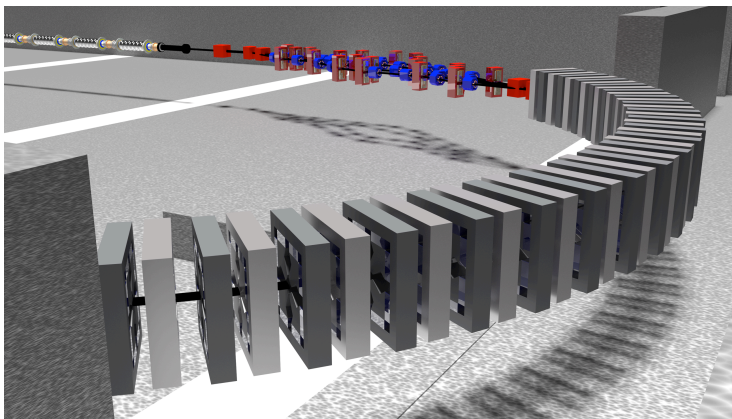






- ERL injector with world-record current
- ERL injector with world-record brightness
- ERL cavity shape for high current
- SRF cavities with low loss
- High-brightness beam physics

Main Linac Cryomodule (MLC)



Complete optics and layout for  
FFAG permanent magnets

